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(54) PRODUCTION OF OLIGOSACCHARIDE OR GLYCOSIDE CONTAINING A-GALACTOSYL GROUP BY USING A-GALACTOSYL FRUCTOSIDE AS RAW MATERIAL

(57)Abstract:

PURPOSE: To obtain large amount of the above sugars useful as a sweetener, etc., because of the use of an inexpensive raw material synthesizable in large quantities, using enzymatic means at a low cost, by using α -galactosyl fructoside as a substrate for α -galactosidase which is a sugar transferase.

CONSTITUTION: The objective sugars can be produced by reacting α -galactosidase to α -galactosyl fructoside used as a donor, thereby transferring the α -galactosyl group by the sugar transfer action of the enzyme. The α -galactosyl fructoside can be synthesized by reacting levan sucrase to galactose and a compound containing fructose residue, e.g. sucrose.

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